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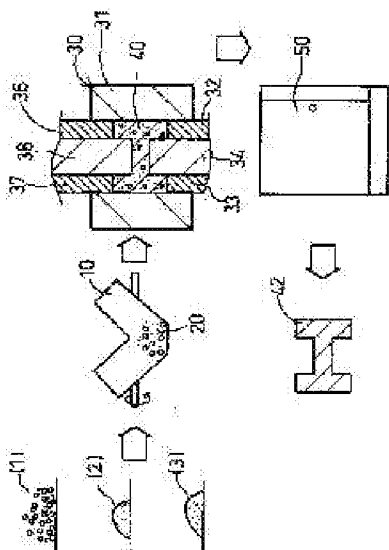
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(54) SOFT MAGNETIC POWDER MATERIAL, SOFT MAGNETIC MOLDED ARTICLE, AND METHOD FOR PRODUCING SOFT MAGNETIC MOLDED ARTICLE



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a soft magnetic powder material which is excellent in high-temperature strength and separability from a mold and has magnetic characteristics (magnetic permeability, saturated magnetic flux density, etc.), and electrical characteristics (resistivity, etc.), compatible with a good balance at a high level; a soft magnetic molded article prepared from the powder material; and a method for producing a soft

magnetic molded article.

SOLUTION: This soft magnetic powder material is a mixture consisting mainly of (1) iron powder particles covered with an insulation film with high electrical insulation properties, (2) a polyamide resin, and (3) a thermoplastic resin having a melting point of 200°C or higher. the soft magnetic molded article is prepared by pressing and then heating the powder material.

